	Application No.	Applicant(s)
Notice of Allowability	09/941,004	KOMORO ET AL.
	Examiner	Art Unit
	Yogesh K. Aggarwal	2615
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	ears on the cover sheet with the (OR REMAINS) CLOSED in this a or other appropriate communication (IGHTS. This application is subject	correspondence address pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed 12/14/2004</u> .		
2. The allowed claim(s) is/are <u>1-17</u> .		
3. A The drawings filed on 14 December 2004 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Horizontal Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINE es reason(s) why the oath or declar	R'S AMENDMENT or NOTICE OF ration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date	son's Patent Drawing Review (PTC) s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.121	Office action of vings in the front (not the back) of I(d).
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. ☐ Interview Summar Paper No./Mail D 08), 7. ☒ Examiner's Amend	ate

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Kempler (Reg. No. 28,228) on April 22, 2005.

- 2. The application has been amended as follows:
- a. Claim 1: lines 1-6, change "Microminiature image pickup device comprising: image pickup element, optical glass furnished on the front surface of said image pickup element, a stacked circuit board that is furnished on the rear surface of said image pickup element and that has a wiring pattern, wherein said image pickup element is mounted to said stacked circuit board so that said rear surface is mounted on an edge of said stacked circuit board along said diametral direction, whereby length of said image pickup device in said length direction is reduced, and a connection member that" to "Microminiature image pickup device comprising: image pickup element, optical glass furnished on a front surface of said image pickup element, a stacked circuit board that is furnished on a rear surface of said image pickup element and that has a wiring pattern, wherein said image pickup element is mounted to said stacked circuit board so that said rear surface is mounted on an edge of said stacked circuit board along a diametral direction, whereby length of said image pickup device in a length direction is reduced, and a connection member that"
- 3. The following is an examiner's statement of reasons for allowance:

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The following prior art shows the current state of the art to this patent application:

i. Kameishi (US Patent # 5418,566) teaches an endoscopic apparatus (figures 2a and 2b) a ceramic substrate 1 that has a multiple layers of wirings embedded connected to electrodes 9 formed on the side bank portions of the ceramic substrate 1, such that the wirings in the ceramic substrate 1 can be electrically connected with a flexible print substrate 8 attached on the side bank portions of the ceramic substrate 1 through the electrodes 9. This flexible print substrate 8 also has a number of chip components 12 attached besides the ceramic substrate 1.

ii. Adair et al. (US Patent # 6,275,255) discloses an endoscopic apparatus (figures 1 and
2) disclosing a CCD 40 mounted on boards 50 and 60 with or without the connection members
62 in the length direction.

As can be seen, the prior art does not teach or reasonably suggest an image pickup element, optical glass furnished on a front surface of said image pickup element, a stacked circuit board that is furnished on a rear surface of said image pickup element and that has a wiring pattern, wherein said image pickup element is mounted to said stacked circuit board so that said rear surface is mounted on an edge of said stacked circuit board along a diametral direction, whereby length of said image pickup device in a length direction is reduced, and a connection member that electrically connects said image pickup element and the wiring pattern of said stacked circuit board in combination with other claimed elements.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yogesh K. Aggarwal whose telephone number is (571) 272-7360. The examiner can normally be reached on M-F 9:00AM-5:30PM.

- 4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on (571) 272-7950. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YKA April 22, 2005

RIMARY EXAMINER